Optical Measuring Instruments and Optical Device Test Systems

High-Accuracy, High-Sensitivity and High-Speed Optical Power Meter

Q8221

		Ō		Ô		(a)		
Model		Q82214		Q82215		Q82216		
Product Type		Short Wavelength General-Purpose		Long Wavelength General-Purpose		Long Wavelength Large-Caliber Medium-Sensitivi		
Wavelength Range		400 to 1100 nm		800 to 1750 nm		800 to 1750 nm		
Power Range		-80 to +17 dBm*1		-60 to +10 dBm*1		-77 to +10 dBm*1		
Tower Hange	Range*2	CW	CHOP	CW	CHOP	CW	CHOP	
	Max.	200 mW	200 mW	20 mW	20 mW	20 mW	20 mW	
	Min.	20 nW	20 nW	2000 nW	2000 nW	20 nW	20 nW	
Sensor Element		Si 8mm ∙¢		Ge 5mm φ		Ge 5mm ∳ Cooled		
Optical Input Form	Beam	Possible (Optical Input Diameter 8mm φ)		Possible (Optical In		pput Diameter 5mm ∮)		
Optical Input Form	Fiber	, soois to to be seen when a seen		Core Diameter ≤100 µm, NA ≤0.3				
	11501			PC,APC, and Slanted Rubbed Connectors				
		nı		se With Appropriate Connector Adaptor For Each)				
		0.14			CHOP	CW	CHOP	
Measurement Accuracy*2		CW	CHOP	CW ±3.0%	±4.0%	±2.5%	±3.5%	
		±3.0%	±4.0%		2002//00001000	The second second		
At Calibration Wavelength		780 nm		1300 nm		1300 nm		
		1 mW		1 mW		1 mW		
		0 to 40°C		0 to 40℃		0 to 40°C		
		CW	CHOP	CW	CHOP	CW	CHOP	
At Wide Wavelength range		±5.0%	±6.0%	±5.0%	±6.0%	±4.5%	±5.5%	
		480 to 9	480 to 900 nm 950 to 1600 nm		950 to 1600 nm			
		1 mW		1 mW		1 mW		
		23±3℃		23±3°C		0 to 40℃		
Linearity (At Averange Time : 1 sec.)		±0.5%±10 pW		±0.5% ±1 nW		±0.5%±20 pW		
		-54 to + 17 dBm		-37 to +10 dBm		-47 to +10 dBm		
		23±3℃		23±3°C		23±3℃		
		±1.0%±10 pW		±1.0%±1 nW		±1.0%±20 pW		
		159 74 Valcadi 250-000 200 450 760		-40 to +10 dBm		-50 to +10 dBm		
		-57 to +17 dBm 23±3°C		23±3℃		23±3℃		
						-77		
Noise Level*3	At Averaging Time : 1 sec.	-80 dBm		-60 dBm		-77 dbiii		
	Without Averaging**	75 10		-55 dBm		-72 dBm		
	SLOW (approx. 9/sec.)	-75 dBm				-68 dBm		
	FS-1 (approx. 30/sec.)	-71 dBm		-51 dBm		Processory.		
	FS-2 (approx. 50/sec.)	-69 dBm		-48 dBm		-65 dBm		
	FS-3 (approx. 100/sec.)	-66 dBm		-45 dBm		-62 dBm		
Polarization Dependence (at wavelength 1550 nm)		j - , , , ,		0.03 dBp-p (Typical)*5		0.03 dBp-p (Typical)*5		
Return Loss	With APC,or slanted Rubbed Connector	60 dB or more						
	With high return loss adaptor*6	45 dB or more (Typical 47 dB)						
	With PC rubbed connector	approx. 14 dB						
Dimensions and Mass		Approx. $60(W) \times 43(H) \times 110(D)$ mm, 270 g or less						
FC		A08012						
Connectors to Adaptor	SC	A08090				33		
Correspondence List	ST	A08096						
	MU	A08369						
	Plug-in			(4				
	MT Adaptor (Mating to 12-pin SMF)	j-		A08187 (Mating to 12-pin SMF)				
	FC			A08328				
High Return Loss Adaptor	SC			A08329				
Correspondence List*9					A08330			
	ST Plus in	A08331 -						
	Plug-in					food	*	
			. 110	32202 or 1382203 Inter	ace Plug-in Unit Requ	ired.		

*' Level at Max, is when optical input was received with entire sensor area.

*' CW - Continuous Optical Measurement Mode used. CHOP : 270 Hz Chopped light Measurement Mode used.

*' Noise Level with CW Mode and at calibration wavelength (With CHOP Mode,noise level at FS-1, FS-2, FS-3 is approx. the same as at SLOW.)

^{**} SLOW: Integration Time, 100 msec FS-1: Integration Time, 20 msec FS-2: Integration Time, 7 msec FS-3: Integration Time, 2 msec ** Typical Figure (Not Specified)
** When using PC rubbed connector with return loss 45 dB or more.